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Hom § I P Gervine § PATENTO-COPES

PATENTSCOPE® Results of searching in PCT for: ( utirasonic near transducer ) and langevin: 48 records Showing records 1 to 25 of 48: About Patents

Title

Final 23 records

Refine Search Technology Focus (ultrasonic near transducer) and langevin PCT Resources

1. (WO 2008/018997) METHOD AND APPARATUS FOR CHARACTERIZING A GLASS 14.02.2003 C03B 5/16 PCT/ Statistics MELT BY ULTRASONIC ILLUMINATION US2007/01 A system is provided for characterizing a molten glass, wherein a waveguide (20a) is acoustically coupled to an exterior surface (34) Patent Law quantity of glass melt. An acoustic wave is imparted into the glass melt (15) by a first transducer (24a) through a first waveguide (20 wave are reflected within the glass melt and received through a second waveguide (20b) and a resulting signal is produced by a second Life Sciences analyzed to characterize the glass men.

Meetings

Patent Search

Data Services

Contact

2. (WO 2008/018996) WAVEGUIDE ASSEMBLY FOR IMPARTING ACOUSTIC ENERGY TO 14.02.2008 C038 5/16 US2007/01 A GLASS MELT AND METHOD FOR IMPARTING ACOUSTIC ENERGY TO THE GLASS

Related Links International Patent

A waveguide assembly (10) is provided for imparting ultrasonic energy to a glass melt (12) at an amplitude sufficient to produce acc thereby mixing the molten glass. The glass melt (12) may, for example, be flowing through a refractory metal vessel (14). In one conf assembly (10) includes a waveguide (18) acoustically coupled to a transducer (16) at one end (22) and the glass melt (12) at the off (16) may be physically coupled to the vessel (14) via a threaded miling (32, 34) attached to an outside surface of the vessel (14).

Natural Language IPC Search

Classification

Standards & Documentation

3. (WO 2008/018935) ULTRASONIC PRESS USING SERVO MOTOR WITH INTEGRATED LINEAR ACTUATOR

14.02.2008 No IPC PCT/ Found US2007/01

App. Num

Pub. Date Int. Class

E-New sletters

An ultrasonic welding system includes an ultrasonic welding stack mounted for linear movement and for applying a controlled force force and speed to a first workpiece to press the first workpiece against a second workpiece to which the first workpiece is to be joine powered linear actualor coupled to the ultrasonic welding stack for moving the stack while applying a controlled force, speed, or a co speed to said stack, the actuator including an electrical serve motor producing rotational mechanical motion and an integrated conveil rotational motion into illiear motion, in one specific implementation, a controller is coupled to the linear actuator for...

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4. (WO 2007/111909) HAPTIC DEVICE WITH INDIRECT HAPTIC FEEDBACK

04.10.2007 G06F 3/041 PCT/ US2007/00

activities regarding patents and

the PCT

A haptic device provides indirect haptic leedback and virtual texture sensations to a user by modulation of friction of a touch surface of one or more sensed parameters and/or time. The sensed parameters can include, but are not limited to, sensed position of the user's sensed finger position such as velocity and/or acceleration, sensed finger pressure, and/or sensed direction of motion of the finger. T to be touched by a user's bare linger, thumb or other appendage and/or by an instrument such as a stylus held by the user."

http://www.wipo.int/cgi-pct/guest/search5 (1 of 5)3/4/08 6:33:04 PM

#### (WO 2007/087411) METHODS OF MANUFACTURE OF SONAR AND ULTRASONIC TRANSDUCER DEVICES AND COMPOSITE ACTUATORS

02.08.2007 H01L

PCT/ US2007/00

41/047

The present invention provides a method of manufacturing piezoelectric transducers that improves performance by reducing the med component interfaces. The method involves the epoxy impregnation and encapsulation of the components within the piezoelectric sta is achieved by capillary action that results in a chemical bond. The encapsulation method results in an epoxy conformal coating that

protection from narsh operational environments and reduces the risk of riigh Voltage electric breakdown.

# 6. (WO 2007/014183) ULTRASONIC TRANSDUCER CONTROL METHOD AND SYSTEM

01.02.2007 G01D 18/00 PCT/ US2006/02

changes that occur during operation, hi one aspect of the invention, the non-motional reactive current is measured at two predeterminations are considered as the predetermination of the control of the (la) and one above the resonance frequency (la). A correction factor is calculated from these measured currents is used to maintain a effector velocity or displacement. In another aspect of the invention, methods are provided for the detection of secondary resonances and affector fault conditions, in another aspect of the invention velocity control is achiev

The present invention relates to methods for velocity control of transducers that can compensate both for age related changes as we

## (WO 2007/014142) ULTRASONIC TRANSDUCER DEVICES AND METHODS OF MANUFACTURE

01.02.2007 H01L 41/08 PCT/ US2006/02

The present invention provides for single use ultrasonic transducers for use in surgical and dental applications. Specifically, the inve comprising one or more of the following features, an active piezo ceramic material that contains less than 2% lead; piezo materials w a high compressive bias force applied to the piezo ceramic elements, a bias bolt sub-assembly that includes a component assembler glass-transition point filled epoxy material, and/or a permanently attached end effector with a sert-tooking taper.

## 8. (WO 2007/011813) BALANCED ULTRASONIC CURVED BLADE

25.01.2007 H01R 33/00 PCT/ US2006/02

Methods and devices that provide reduced fransverse motion in a curved ultrasonic blade and/or ultrasonic surgical instrument with ultrasonic blade in accordance with embodiments of the present invention includes a curved functional portion of an ultrasonic blade mass of the curved functional portion lies on the mid-line of a waveguide delivering ultrasonic energy to the blade. Balancing in acco the present invention, using placement of the center of mass of the curved portion of the blade appropriately, provides blade balance blade, without reduction or mass and inherent stress increase proximal to the end-effector.

#### 9. (WO 2007/011520) APPARATUS, CIRCUITRY, SIGNALS, PROBES AND METHODS FOR 25.01.2007 8088 3/12 PCT/ CLEANING AND/OR PROCESSING WITH SOUND

US2006/02

The invention utilizes multiple frequency ultrasound generators driving multiple frequency harmonic transducer arrays at sweeping fit megasonic range. Generator signals that increase cavitation efficiency and that have successive time periods with predominantly sta predominantly transient cavitation further improve the performance of the cleaning, microbiological inactivation, sonochemistry or pro mat monitor the uttrasound and teeddack the information to the generator provide consistency or process.

#### (WO 2007/008428) LOW-STRESS ULTRASOUND TRANSDUCER

18.01.2007 H01L 41/00 PCT/ US2006/02

A transducer includes a resonator assembly having a first surface and a second surface on opposite sides thereof, a front mass have first surface of the resonator assembly, a back mass having a surface adjacent to the second surface of the resonator assembly, and mounted on the front mass and the back mass. The compression assembly is adapted to effect compression across the resonator as assembly contains at least two driven active elements such that when at least one of the driven active elements is driven to increase the other onven active elements is driven to decrease in thickness.

#### 11. (WO 2006/116508) HIGH POWER ULTRASONIC TRANSDUCER

A transducer includes a resonator assembly having a first surface and a second surface on opposite sides thereof, a front mass having a surface adjacent to the second surface of the resonator assembly, and mounted on the front mass and the back mass. The compression assembly is adapted to effect compression across the resonator assembly is adapted to front mass and the back mass adjacent to the resonator assembly and first and second surfaces of the resonator assembly and first and second surfaces of the resonator assembly are first only in the compression state. The resonator assembly are first and second surfaces of the resonator assembly are first and second surfaces of the resonator assembly is not in me compression states.

# 12. (WO 2006/114919) CUTTING OR GRINDING MACHINE

02.11.2006 B23B 37/00 PCT/ JP2005/02

A cutting or grinding machine is composed of a processing unit having a substrate and an exchangeable cutting or grinding rod fixed portion or rear end, and a rotatable unit having a rotatable support for workpiece, in which the cutting or grinding rod has a **ultrasoni** an area peaweer a front end or time rod and a portion at which the rotatable unit having a rotatable support for workpiece in which the cutting or grinding rod has a **ultrasoni** an area peaweer a front end or time rod and a portion at which the cutting or grinding rod has a **ultrasoni**.

# 13. (WO 2006/101532) ULTRASONIC MEDICAL DEVICE AND METHOD

28.09.2006 A618 8/14 PCT/ US2005/03

Ultrasonic devices having transducer assembly including a stack of alternating electrodes and piezcelectric elements. A mounting of second end is adapted to receive ultrasonic whation from the first hand that sets to the second end. A boil (106) and configured to threadedly engaged the mounting device. The transducer assembly (182) includes a deformable pressure element (15 that permits insertion of the shaft therethrough, and has a convex side facing the both head and a concave side facing the stack in a readment stage, appries compression roces to me search assert on the determation. The denormating pressure element (15).

## 14. (WO 2006/052482) ULTRASONIC SHEAR WITH ASYMMETRICAL MOTION

18 05.2006 A61B 17/32 PCT/ US2005/03

Devices providing ultrasonic clamped cutting using asymmetrical motion include a housing (135) and ultrasonic waveguide (179). An advantage seembly provides opposable movement of a clip to the cutting blade (178), the movement defining a vertical plane having a vertical axis (430) critiogonal to both the longitudinal axis (440). An end-effector (185) coupled to the ultrasonic waveguide (179) includes a cutting blade (179) that cuts using ultrasonic mot mass (500) may be comed more imaginusma axis (400), providing motion or this place in both the originusma axis (400).

# (WO 2006/003305) ULTRASONIC WAVE TRANSDUCER FOR MAKING SURFACE. LAYERS OF THE EPIDERMIS PERMEABLE

12.01.2006 806B 1/06 PCT/ FR2005/00

The invention relates to the field of wave transducers for medical or cosmetic use. More particularly the invention concerns an ultrasfast permeabilization of the skin to enable variable-weight active molecules to be transdermally administrated. Such use of ultrasound administration of active molecules is called sonophoresis. The invention also concerns a device for making permeable biological mer one transducer (1, 2, 12), characterized in that said transducer is capable of generating a specific ultrasonic wave corresponding to or a first low-frequency unrasonic wave and or a second low-frequency unrasonic wave.

# 16. (WO 2005/030407) ULTRASONIC CLEANING DEVICE

07.04.2005 B06B 1/04 PCT/

PCT/ JP2004/01/

An ultrasonic cleaning (1) device is provided, which has the capability of safety and efficiently cleaning an object to be cleaned such This cleaning device comprises a housing (10) having an opening, ultrasonic transducer (20) accommodated in the housing, and a member (30) having an ultrasonic modent surface (31) for receiving an ultrasonic wave provided from the ultrasonic transducer, surface (33). The transmission member is supported in the housing such that the ultrasonic radiation surface is exposed to outside since transmission member is made or a rubber material, preferancy suicon turber, the deject can be safely decembed.

17. (WO 2005/030406) ULTRASONIC CLEANING DEVICE

07.04.2005 B05B 17/06 PCT/

An ultrasonic cleaning device (1) is provided, which has the capability of efficiently and safely cleaning an object to be cleaned such a liquid (2) as a cleaning medium, to which an ultrasonic wave is being applied. In this device, the liquid is supplied into a chamber ( and the ultrasonic wave provided from an ultrasonic transducer (40) is applied to the liquid in the chamber through an ultrasonic Since a shield member (5) is disposed between the transmission member and an inner surface of the housing to prevent a propagation from the transmission member to the ricusting. It is possible to reduce transmission loss of the untrasonic w...

## 18. (WO 2004/073495) FINGERTIP SURGICAL INSTRUMENTS

02.09.2004 A61B 1/00 US2004/00

> PCT/ SE2003/00

US2003/02

IL2002/000

Disclosed is a minimally invasive surgical instrument that may be used in hand-assisted laparoscopic surgeries. The device is multiful that may be mounted directly on a surgeon's tingentip and inseried through an incision to allow the surgeon to manipulate tissue durit

### (WO 2004/038915) TUNABLE ACOUSTIC WAVE DEVICE

06.05.2004 H03H 9/17

08.04.2004 A61B 17/32 PCT/

01.04.2004 F16K 7/17

The invention discloses a tunable acoustic wave device (100: 200) comprising a piezoelectric material (120; 220) with a tunable diele dielectric permittivity of the material is tuned by applying a tuning electric field (190), preferably a DC-bias field, low frequency AC field electric field superimposed onto an electric field pulse, thereto. By tuning the dielectric permittivity, the operation characteristics of the

(199) may applied by superimposing it onto the input high frequency electric field sign...

is intended to function with conventional **uttrasonic** transducers at conventional frequencies.

20. (WO 2004/028349) ULTRASONIC SURGICAL INSTRUMENT HAVING AN INCREASED

US2003/03 WORKING LENGTH The present invention is an ultrasonic surgical instrument having an altered cross sectional area and/or stiffness of 1/2 wave segme or end effector. The waveguide is coupled to an ultrasonic transducer. The 1/2 wave segments of the waveguide or end effector co decimetries and function to extend or decrease the length of a waveguide and/or end effector without adding or removing wave segments.

the acoustic wave velocity in the material (120; 220) and the resonance frequency and bandwidth of the device (100; 200), may be to

21. (WO 2004/026104) ULTRASONIC SURGICAL INSTRUMENT INCORPORATING FLUID MANAGEMENT

Disclosed is an ultrasonic surgical device having a distally/proximally movable fluid management system consisting of single lumen invention provides for the delivery of intigation fluid or the removal of fluid, debris or vapor from the tissue-effecting portion of the blad loading on the blade. The blades of the surgical device, when excited at a natural blade system frequency, will have modal shapes of transverse and / or torsional motion and will have nodal locations for these motions at positions along the tissue effecting length of the designed to allow for the fluid management system to be positioned at one of more motion nodes to racii...

22. (WO 2004/000116) DEVICES AND METHODOLOGIES USEFUL IN BODY AESTHETICS 31.12.2003 A618 19/00 PCT/ A methodology and system for lysis or induction of apoptosis in cellulite and fat including directing ultrasonic energy at a multiplicity

region, which target volumes contain cellulite and fat, thereby to selectively lyse or induce apoptosis in the cellulite and fat in the target tyse or not induce apoptosis in non-cellulite and non-tat tissue in the target volumes and computerized tracking of the multiplicity of ta notwinstanding movement of the body.

23. (WO 2003/092793) ELECTROMECHANICAL TRANSDUCER WITH ERGONOMIC SHAPE 13.11.2003 A618 8/14 PCT/ US2003/00

A transducer (8 or 10) assembly for an ultrasonic surgical instrument includes a front driver (14 or 22) having an elongate shaft extinuous stud (30 or 32) extending in an opposite direction. An electromechanical transducer (8 or 10) element is disposed around the stud (3 or 10) assembly also comprises a rear driver (34 or 36) disposed around the stud (30 or 32) on a side of the electromechanical trans opposite the front driver (14 or 22), the electromechanical transducer (8 or 10) elements being clamped between the front driver (14

(34 or 36). An inertial or damping mass (54) is fixedly connected to the stud (30 or 32) at a point spaced from.

24. (WO 2003/039381) ULTRASONIC PROBE DEVICE HAVING AN IMPEDANCE MISMATCH 15.05 2003 A6:8 17:00 PCT/
WITH RAPID ATTACHMENT AND DETACHMENT MEANS US2002/03

An ultrasonic tissue ablation device comprising a transversely vibrating small-diameter probe (10) and a coupling assembly for prob detachment that that enables the probe (10) is disengage from the device body. The probe detachability allows for insertion, manipul independently of the device body. The probe (10) can be used with accustic and/or aspirations sheaths to enhance tissue ablation. I ultrasonic energy source and a hom assembly (34). This probe (10) of the present invention is engaged to the device body in a man impediance membrane semination between the probe (10) and the device body which allows the probe and the device body in a man impediance membrane semination between the probe (10) and the device body which allows the probe and the device body in a final respective membrane semination between the probe (10) and the device body in a man

25. (WO 2003/030777) ULTRASONIC PROBE DEVICE WITH RAPID ATTACHMENT AND DETACHMENT MEANS HAVING A LINE CONTACT COLLET

17 04.2003 A61B 17/00 PCT/ US2002/03

An ultrasonic medical device comprising an ultrasonic probe (25) and a collet assembly for probe attachment and detachment, and occlusions in blood vessels using the ultrasonic medical device. The probe (25) detachability allows insertion, manipulation and with device body. The collet assembly (5) comprises a compression clamp (10) capable of releasably receiving the probe (25), and a cominitiates a minimal area line-contact between the collet assembly segments upon engagement. A line-contact lip (21) ensures consist

between the compression clamp (10) and the compression housing (14) at a pre-determined location to provide a consistent closi...

Final 23 records

Start At

Search Summary

ultrasonic NEAR transducer: 33122 occurrences in 3691 records.

langevin: 457 occurrences in 262 records.

(ultrasonic NEAR transducer AND langevin): 48 records.

Search Time: 3.24 seconds.

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